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- (54) System and method for using a two part cover for protecting a reticle
- (57) A system and method are used to protect a mask from being contaminated by airborne particles. They include providing a reticle secured in a two-part cover. The two part cover includes a removable protection device used to protect the reticle from contaminants. The cover can be held inside a pod or box that can be used to transport the cover through a lithography system from an atmospheric section to a vacuum section. While in the vacuum section, the removable cover can be moved during an exposure process during which a pattern on the reticle can be formed on a wafer.

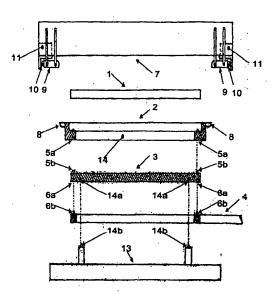


FIG. 1



EUROPEAN SEARCH REPORT

Application Number EP 03 00 3288

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	The present search report has	been drawn up for all claims			
	Place of search	Date of completion of the search	 -	Examiner	
	Munich	9 February 2004	van	Toledo, W	
X : partic Y : partic docu A : techi O : non-	TEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anot ment of the same category notogical background written disclosure mediate document	T: theory or principl E: earlier patent do after the filing dat D: document cited i L: document cited i 8: member of the si	cument, but publis e n the application or other reasons	hed on, or	

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EUROPEAN SEARCH REPORT

Application Number EP 03 00 3288

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CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background		E : earlier patent d after the filing d D : document cited L : document cited	T theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons		
	written disclosure mediate document	& : member of the document	same patent family,	corresponding	



Application Number

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CLAIMS INCURRING FEES
The present European patent application comprised at the time of filling more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF LIMITY OF INVENTION
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
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LACK OF UNITY OF INVENTION SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-14,15

Two-part cover and alignment means for continuous protection of a reticle from contaminants within the exposure apparatus by reducing particle settling on the reticle, and by reducing particle generation due to transer friction and reticle sliding friction

2. claims: 16-23

A pod/loadlock to protect a reticle from contaminants during transport from outside to within the exposure apparatus by controlling gas flow and method of using the same $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{1}{2} \int_{-\infty}$

3. claim: 24

System comprising of a box and separate loadlock to provide mechanical transport of the mask through several vacuum environments

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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